

## CENTRAL REGIONAL LABORATORY

### Data Checklist

Data Set AIR 2002 0034 CHESHIRE MONITORING STUDY  
TSP



Chain-of-Custody



Analysis Request Form(s)\*



Sample Tags



Transmittal Report w/signatures of the following:

- Analyst (s)
- Peer Reviewer
- Environmental Data Coordinator

\* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by:

Sylvia Griffin 1-24-02  
Data Management Coordinator



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 24 2002

Subject: Review of Region 5 Data for CHESHIRE MONITORING STUDY

From: Edgar Santiago, Chemist ES  
Region 5 Central Regional Laboratory

To:

ttached are the results for: CHESHIRE MONITORING STUDY

CRL data set number: 20020034

Samples analyzed for: **Suspended Particles**

Results are reported for sample designations: 2002AH27D01, 2002AH27S01, 2002AH27S02, and 2002AH27S03.

JAN 24 2002

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Data Management Coordinator and Date Received

Date Transmitted: JAN 24 2002

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML-10C

\_\_\_\_\_/ /  
Received by and Date

Comments:

ENVIRONMENTAL PROTECTION AGENCY  
REGION V  
CENTRAL REGIONAL LABORATORY  
FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 01/08/2002 LAB ARRIVAL DATE: 01/15/2002 DUE DATE: 02/05/2002  
DU NUMBER: 90101A DATA SET NUMBER: 20020034 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH27S01	GUIDING HANDS SCHOOL	0.0191			
2	2002AH27S01	GUIDING HANDS SCHOOL	0.0191			
3	2002AH27S02	RVHS	0.0146			
4	2002AH27S03	ADDAVILLE	0.0195			
DATE OF ANALYSIS			01/23-24/2002			
ANALYST			FS			

Reviewed by: FWH Date: 01/24/2002

Page 1 of 1



CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and Inorganic Group		Page _ of _

## ATTACHMENT II

### CRL Analytical and Inorganics Data Review Checklist

Batch Number: 200200374 FAD Facility: CHESTIRE MONITORING STUDY  
 Parameter: SUSPENDED PARTICLES CRL SOP: AIG047

Package Overview:	YES	NO
Raw Data Package Complete?	✓	
Results Reported Correctly?	✓	
Special Requests Done?	N/A	
Calculations Checked?	✓	
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?	✓	
Calibration Verification Checked?	N/A	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	N/A	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?	✓	
Narrative Complete?	✓	

Analyst: 68

Date: 1/24/2002

Peer Reviewer: FAD

Date: 1/24/2002

Comments Attached? (Y/N) N

<b>Data Set Number:</b>	<u>20020034</u>	<b>Parameter:</b>	<u>Suspended Particles</u>
<b>Facility Name:</b>	<u>CHESHIRE MONITORING STUDY</u>		
<b>Study Name:</b>	<u>CHESHIRE MONITORING STUDY</u>		
<b>Date of Narrative:</b>	<u>01/23/2002</u>	<b>Analyst:</b>	<u>ES</u>
		<b>Signature:</b>	<u>ES</u>

### ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on January 15, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280100	2002AH27D01	5-340131
Q6280099	2002AH27S01	5-340130
Q6280103	2002AH27S02	5-340132
Q6280101	2002AH27S03	5-340133

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 01/23/2002 and was completed on 01/24/2002. All exposed filters were in good conditions.

### QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

### SAMPLE RESULTS:

All the sample results are acceptable for use.

### ELECTRONIC DATA:

No electronic data.

# CHESHIRE AIR MONITORING PROJECT

## PM10

Parameter: Suspended Particles

Data Set Numbers: 20020033, 20020034

Date of Analysis 01/23-24/2002

Analyst: ES

### BALANCE VERIFICATION:

Standard Weights	Balanced weight	Differences
Actual (g)	Balanced (g)	(g)
Limit +/-0.0005 g		
1.0000	1.0002	-0.0002
2.0000	2.0001	-0.0001
5.0000	4.9999	0.0001

### QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q6280103	2002AH27S02	01/24/02	Analyst 1	4.3848
Q6280103	2002AH27S02	01/24/02	Analyst 2	4.3849
Differences (Limit +/- 5 mg).....				-0.0001
Q6280097	2002AH26D01	01/24/02	Analyst 1	4.4052
Q6280097	2002AH26D01	01/24/02	Analyst 2	4.4055
Differences (Limit +/- 5 mg).....				-0.0003

**CHESHIRE AIR MONITORING PROJECT**  
**PM10**

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^	of filters (g)	weight (g)	Gain	(UG/M^3)
<b>Data set Number 20020033</b>											
Q6280097	2002AH26D01	01/02/02	Guiding Hands School	3013	18.75		0.00	4.3760	4.4052	0.0292	ERR
Q6280032	2002AH26S01	01/02/02	Guiding Hands School	3012	18.80		0.00	4.3853	4.4118	0.0265	ERR
G6280098	2002AH26S02	01/02/02	RVHS	3009	18.25		0.00	4.3514	4.3867	0.0353	ERR
Q6280096	2002AH26S03	01/02/02	Addaville	3011	18.55		0.00	4.3971	4.4245	0.0274	ERR

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^	of filters (g)	weight (g)	Gain	(UG/M^3)
<b>Data set Number 20020034</b>											
Q6280100	2002AH27D01	01/08/02	Guiding Hands School	3013	18.45		0.00	4.3655	4.3846	0.0191	ERR
Q6280099	2002AH27S01	01/08/02	Guiding Hands School	3012	18.80		0.00	4.3532	4.3723	0.0191	ERR
G6280103	2002AH27S02	01/08/02	RVHS	3009	18.50		0.00	4.3702	4.3848	0.0146	ERR
Q6280101	2002AH27S03	01/08/02	Addaville	3011	18.55		0.00	4.3694	4.3889	0.0195	ERR

FILTER I.D.	TARE Wt. (g)	DUP Wt. (g)	EXPOSED Wt. (g)	EXPOSED Wt. DUP (g)	COMMENTS
Q6280116	4.3620		4.3800		
Q6280115	4.3648		4.3810		
Q6280114	4.3400		4.3570		
Q6280113	4.3739		4.3913		
Q6280112	4.3880		4.4100		
Q6280111	4.3609		4.3833	4.3835FAA	
Q6280110	4.3518	4.3520FAA			
Q6280109	4.3697				
Q6280108	4.3688				
Q6280106	4.3779				
Q6280107	4.3483				
Q6280105	4.3499				
Q6280103	4.3702		4.3848	4.3849FAA	
Q6280104	4.3775	4.3780FAA			
Q6280102	4.3347				
Q6280101	4.3694		4.3889		
Q6280100	4.3655		4.3846		
Q6280099	4.3532		4.3723		
Q6280098	4.3514		4.3867		
Q6280096	4.3971	<del>4.4245</del>	4.4245		
Q6280097	4.3760		4.4052	4.4055FAA	
Q6280032	4.3853		4.4118		
Q6280029	4.3775				
Q6280028	4.3587	4.3586FAA			

1/4/02 - 1/4/02

1/4/02 - 1/4/02

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Formation

Standard weights, actual (g)

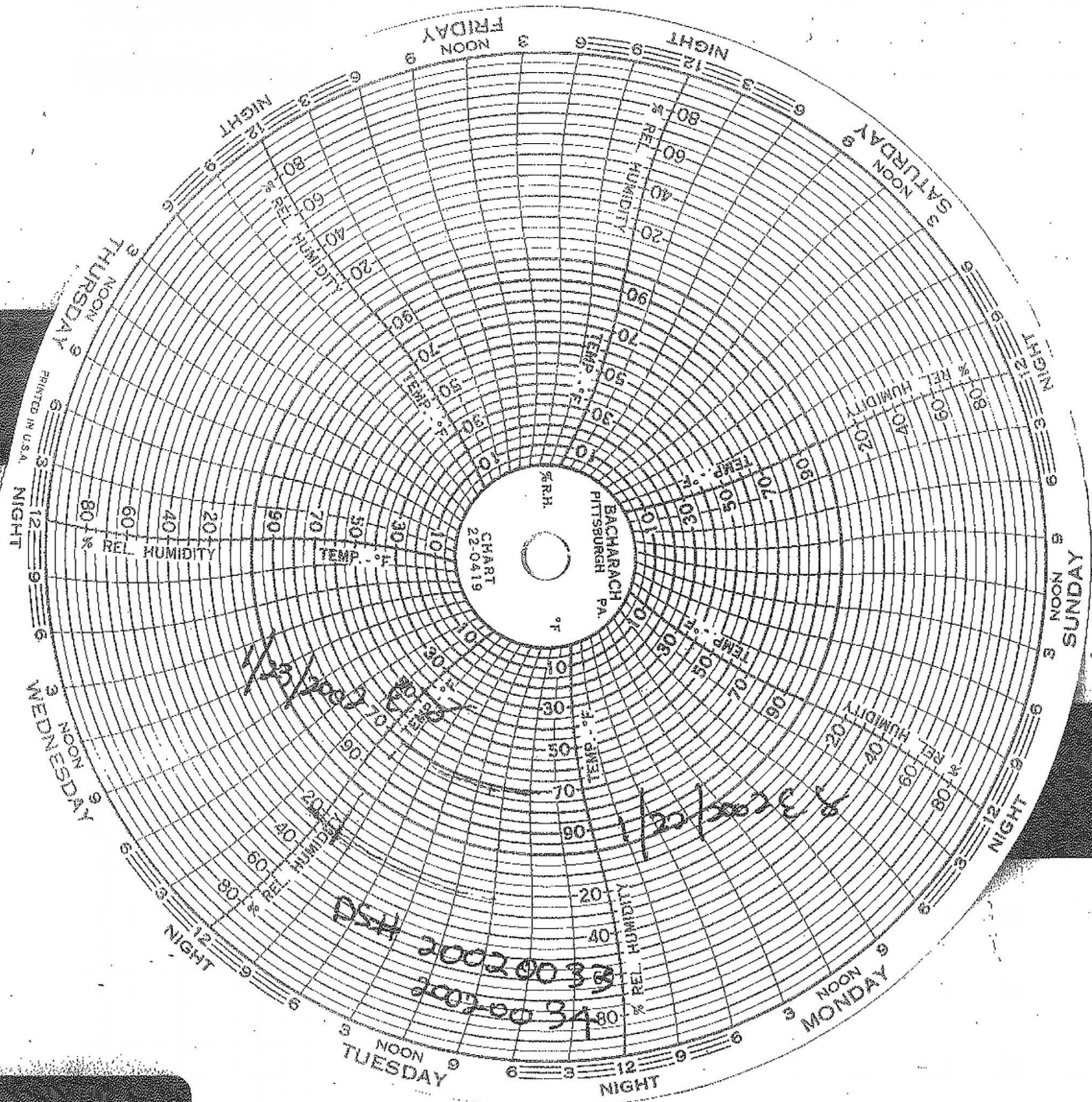
Balanced weights, balanced (g)

SARTORIUS	(500 <sup>mg</sup> + 200 + 200 + 100)	1.0000	1.0000
S/N 37010119		2.0000	2.0000
1/4/02 F.A.		5.0000	4.9999

SARTORIUS	(500 <sup>mg</sup> + 200 + 200 + 100)	1.0000	1.0002
S/N 37010119		2.0000	2.0000
1/10/02 E.S.		5.0000	5.0001

SARTORIUS	(500 <sup>mg</sup> + 200 + 200 + 100)	1.0000	1.0001
S/N 37010119		2.0000	1.9999
1/10/2002 E.S.		5.0000	4.9999

SARTORIUS	(500 <sup>mg</sup> + 200 + 200 + 100)	1.0000	1.0002
S/N 37010119		2.0000	2.0001
1/23/2001 E.S.		5.0000	4.9999





US EPA Region 5 Field Sample



5-340131-1

Parameters PM10

Preservative None S M M D B D  
Sample ID 02AH27DO1 X  
Sampler Mike Murphy  
Date 1-11-02

PM-10

SAROAD

OPERATOR

DATE 1-8-02

TSP

SITE CHS# 3013

CHS# 3013

AVG. RECORDER RESP.

14.45

TEMP

C

K

FINAL WT

g

ELAPSED TIME 1440 MINUTES

PRESS

mmHg

INITIAL WT

g

FLOW

m/min

TOTAL FLOW

m

SAMPLE WT

g

STD

ACTUAL

PM-10

ug/m<sup>3</sup>

COMMENTS:



EPA 1300

COMMENTS:

PM-10 SAROAD  
TSP SITE GH54 3012  
AVG. RECORDER RESP. 17.8  
ELAPSED TIME 1440 MINUTES  
PRESS mmHg  
TEMP °C  
K  
FINAL WT  
INITIAL WT  
TOTAL FLOW m/min  
SAMPLE WT  
u/m

US EPA Region 5 Field Sample



5-340130-1

Parameters PM10

Preservative None S M MD B D  
Sample ID 02AH27SO1 X  
Sampler Mike Meyer  
Date 1-11-02



US EPA Region 5 Field Sample



5-340132-1

Parameters PM10

Preservative None S M MD B D

Sample ID 02AH27S02 X

Sampler *Mike Mueyer*

Date *1-11-02*

PM-10

SAROAD

OPERATOR *OIEPA*

DATE *1-3-02*

TSP

SITE *R VHS # 3007*

*006880103*

AVG. RECORDER RESP. *18.5*

TEMP

C

K

FINAL WT

g

ELAPSED TIME *144* MINUTES

PRESS

mmHg

INITIAL WT

g

FLOW

m/min

TOTAL FLOW

m<sup>3</sup>

SAMPLE WT

g

STD

ACTUAL

PM-10

ug/m<sup>3</sup>

COMMENTS



PM-10 ☒ SAROAD OPERATOR OEPA DATE 1-8-02  
 TSP 06280401 SITE Adelphi # 3011  
 AVG. RECORDER RESP. 18.55 TEMP C K 9 FINAL WT g  
 ELAPSED TIME 1445 MINUTES PRESS mmHg INITIAL WT g  
 FLOW m<sup>3</sup>/min TOTAL FLOW m<sup>3</sup> SAMPLE WT g  
 STD PM-10 ACTUAL ug/m<sup>3</sup> COMMENTS:

US EPA Region 5 Field Sample



5-340133-1

Parameters PM10

Preservative None S M MD B D

Sample ID 02AH27S03 X

Sampler Mike Muep

Date 1-11-02